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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/970,755	10/04/2001	Alvie L. Foster JR.	1966.ALC	1636
75	90 09/15/2005		EXAM	INER
Thomas F. Roland			SERGENT, RABON A	
NATIONAL ST	TARCH AND CHEMICA	AL COMPANY		
P.O. Box 6500			ART UNIT	PAPER NUMBER
Bridgewater, N	J 08807-0500		1711	

DATE MAILED: 09/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		A		
	Application No.	Applicant(s)	l		
Office Action Summan	.09/970,755	FOSTER ET AL.	·		
Office Action Summary	Examiner	Art Unit			
The MAIL DIO DATE AND	Rabon Sergent	1711			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC  136(a). In no event, however, may a re will apply and will expire SIX (6) MONT  2. cause the application to become ABA	CATION.  ply be timely filed  THS from the mailing date of this co			
Status					
1) Responsive to communication(s) filed on 07 J	uly 2005.				
<u> </u>	s action is non-final.				
3) Since this application is in condition for allowa			merits is		
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-3 and 5-23</u> is/are pending in the ap	plication.				
4a) Of the above claim(s) is/are withdra					
5)⊠ Claim(s) <u>11-18</u> is/are allowed.					
6) Claim(s) <u>1-3, 5-10, and 19-23</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc		ov the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct	-		R 1.121(d).		
11) The oath or declaration is objected to by the Ex			• •		
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. &	119(a)-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	phoney under 55 0.5.0. g	1 10(a)-(u) 01 (1).			
1.☐ Certified copies of the priority document	s have been received				
		onlication No			
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>					
application from the International Bureau		COGNEG III IIIIS IVAUUIIAI	Stage		
* See the attached detailed Office action for a list		eceived.			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Su	ımmary (PTO-413)			
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Motice of Inf 6) Other:	ormal Patent Application (PTO	-152)		
S. Patent and Trademark Office	6) [ Other:				

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1. Claims 1-3, 5-10, and 19-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicants have claimed that the reactive hydrophobic backbone further comprises a hydrocarbon or modified hydrocarbon chain having one or more reactive chemical groups. Firstly, it is unclear what the hydrophobic backbone initially comprises, in view of the "further comprises" language. Secondly, it is unclear what modifications to the hydrocarbon chain are encompassed by the "modified hydrocarbon chain" language.

2. Claims 1-3, 5-10, and 19-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicants have failed to adequately define the term, "modified hydrocarbon chain". It cannot be determined exactly what is meant by the language or what modifications to the hydrocarbon chain are encompassed by the language.

3. Claims 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The reference to the compounds of claims 9 and 10 as groups renders the claims indefinite. Within the chemical arts, a chemical group refers to a substituent that is present on or within a compound. For example, an amine group is a chemical group that is a substituent of an

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amine compound or amine-containing compound. Therefore, it is unclear how applicants' chemical groups of claim 1 relate to the claimed amine compounds of claims 9 and 10. Do applicants intend that the word, "group", mean the same thing as compound? Applicants' response has not addressed the fact that the diamine, multiamine, or diol compounds of claims 9 and 10 are not groups. Furthermore, it appears from page 3 of the specification that the compounds of claims 9 and 10 relate to the "hydrocarbon or modified hydrocarbon chain having one or more reactive chemical groups" as opposed to the "reactive chemical groups", *per se*; however, applicants' claims do not reflect this distinction, and applicants' response has in no way clarified the issue.

- 3. Applicants' response to the 35 U.S.C. 112, first paragraph rejection set forth within paragraph 3 of the Office action of September 17, 2004 has been considered. Accordingly, the position is taken that (poly)dithiocarbamate resins that correspond to those set forth within SCHEME II (pages 8 and 9 of the specification) are excluded by the language of claim 1, since the resins of SCHEME II contain tertiary amine groups.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.

R. Sergent September 13, 2005